

WHAT IS CLAIMED IS:

1. An equalization method for a single carrier wireless transmitter apparatus, comprising:
  - determining a channel impulse response;
  - calculating coefficients for at least one time domain filter in a decision feedback equalizer based on the channel impulse response; and
  - selecting a subset of calculated coefficients for the time domain filter in the DFE.
2. Apparatus for equalizing single carrier single burst signals, comprising:
  - circuitry for estimating a channel impulse response;
  - circuitry for determining filter coefficient for a decision feedback equalizer having sufficient length to cover a maximum anticipated channel impulse response; and
  - circuitry for selecting a subset of the coefficients with a number of coefficients less than the total number of calculated coefficients;wherein the decision feedback equalizer utilizes the subset of filter coefficients.